

Claims:

1. A pulley (1), in particular for aerial tramways, having a pulley body (2) which has a rotationally symmetrical outer circumferential surface (8) and a pulley hub (4), and having a tire (3) which sits on the outer circumferential surface (8) and has at least one radially outer and one radially inner ring (13, 15) and also a reinforcing ring (14), the reinforcing ring being made of a material which is rigid relative to the radially inner and the radially outer rings (13, 15), the reinforcing ring having a diameter which is smaller than the outside diameter of the radially outer ring (15), the radially inner ring (13) being made of an elastomer, the radially outer ring (15) being made of an elastomer or a plastic, and the radially outer ring (15) having a greater Shore hardness than the radially inner ring (13).
2. The pulley as claimed in claim 1, characterized in that the pulley body (2) has two lateral flanks (9), between which the outer circumferential surface (8) of the pulley body (2) extends and into which the outer circumferential surface (8) of the pulley body (2) merges.
3. The pulley as claimed in claim 2, characterized in that at least one of the lateral flanks (9) is flat or frustoconical, and in that a flange disk (12), which projects radially outward beyond the outer

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circumferential surface (8) of the pulley body (2), is detachably fastened to at least one of the lateral flanks (9).

4. The pulley as claimed in claim 1, characterized in that the width of the outer circumferential surface (8) of the pulley body (2) corresponds to the width of the radially inner and the radially outer rings (13, 15).

5. The pulley as claimed in claim 1, characterized in that the radially inner and the radially outer rings (13, 15) are approximately the same width.

6. The pulley as claimed in claim 1, characterized in that the radially outer ring (15) has an outer circumferential surface (32) which is a surface of rotation and which is concentric to the pulley hub (4) in the unloaded state.

7. The pulley as claimed in claim 1, characterized in that the outer circumferential surface (32) of the radially outer ring (15) contains a rope groove (38).

8. The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) is embedded in the radially outer or the radially inner ring (15).

9. The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) is fitted in between the radially outer ring or [sic] the radially inner ring (15).

10. The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) is a plastic molding which, if need be, is fiber-reinforced.

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13. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) has [sic] a sheet-metal formed part.

11. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) has [sic] a forging.

12. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) has [sic] a casting.

13. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) has an outer circumferential surface (29) which is designed in such a way that the radially outer ring (15) has an approximately constant thickness as viewed over its width.

14. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) has an inner circumferential surface (26) which is designed in such a way that the radially inner ring (13) has an approximately constant thickness as viewed over its width.

15. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) consists of two parts (14a, 14b) which are joined together along a radial plane and are fastened to one another.

16. [sic] The pulley as claimed in claim 15, characterized in that the two parts (14a, 14b) of the

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reinforcing ring (14) bear directly against one another.

17. [sic] The pulley as claimed in claim 15, characterized in that the two parts (14a, 14b) of the reinforcing ring (14) are connected to one another while forming at least one axial intermediate space.

18. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) contains blind openings (42) which lead from the lateral flank (27, 28) into the reinforcing ring (14).

19. [sic] The pulley as claimed in claim 1, characterized in that the reinforcing ring (14) contains slots which run in the circumferential direction and lead from the lateral flank (27, 28) into the reinforcing ring (14).

20. [sic] The pulley as claimed in claim 1, characterized in that at least either the radially outer or the radially inner ring (13, 15) is connected to the reinforcing ring (14) in a positive-locking manner.

21. [sic] The pulley as claimed in claim 1, characterized in that the radially inner ring (13) is recessed at its lateral flanks (17, 18) at least in sections relative to the surfaces defined by the lateral flanks (9) of the pulley body (2).

22. [sic] The pulley as claimed in claim 1, characterized in that the radially inner ring (13) contains a plurality of through-openings (25), which

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run in the axial direction and are distributed equidistantly along the circumference.

23. [sic] The pulley as claimed in claim 1, characterized in that the radially inner ring (13) has little internal damping.

24. [sic] The pulley as claimed in claim 1, characterized in that the distance between the lateral flanks (33, 34) of the radially outer ring (15) is equal to the clearance distance between the flange disks (12) at this location.

25. [sic] The pulley as claimed in claim 1, characterized in that at least the radially inner ring (13) contains a textile reinforcement in the vicinity of its inner circumferential surface (16).

26. [sic] The pulley as claimed in claim 1, characterized in that a clamping device (61) is assigned to the tire (3), by means of which clamping device (61) the tire (3) can be radially pretensioned on the outer circumferential surface (8) of the pulley body (3) [sic].

27. [sic] The pulley as claimed in claim 26, characterized in that the clamping device (61) has an annular, essentially rotationally symmetrical form with a radially inner and a radially outer surface (73, 74).

28. [sic] The pulley as claimed in claim 26, characterized in that the clamping device (61), relative to the radial direction, is fitted in between the radially inner ring (13) and the outer

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0	0000
1	0001
2	0010
3	0011
4	0100
5	0101
6	0110
7	0111
8	1000
9	1001
A	1010
B	1011
C	1100
D	1101
E	1110
F	1111

33. [sic] The pulley as claimed in claim 32, characterized in that the elastomeric coating (77) is made of the same material as the radially inner ring (13).

34. [sic] The pulley as claimed in claim 26, characterized in that each annular part (71, 72) of the clamping device (61) has a frustoconical outer form and a frustoconical bore (73), the radial thickness at one axial end (75) of each annular part (71, 72) being smaller than at the other axial end (76), and in that a ring is obtained in the assembled state, which ring, relative to its axial extent, is constricted approximately in the center.

35. [sic] The pulley as claimed in claim 26, characterized in that the two parts (71 [lacuna]) are screwed together by means of screws (83).

36. [sic] The pulley as claimed in claim 1, characterized in that the outer circumferential surface (8) of the pulley body (3) [sic] forms a double cone, which has the largest diameter at the intersection (65) between the two cones.

37. [sic] The pulley as claimed in claim 1, characterized in that the outer circumferential surface (8) of the pulley body (3) [sic] forms a cylindrical surface.

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